



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Johi No: CTCE/BBMP/W.No.02/KRIDI./CSR-03/780a/CEMENT/2014-15

Date: 05.03.2015

TEST REPORT ON CEMENT

* CUSTOMER	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* AGENCY	: Technical Manager, KRIDI, Bangalore.
* NAME OF THE WORK	: Construction of drains and improvements to roads balance main and cross roads of Sushreeamma Layout and Isaq Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	: AEE/BBMP/YSD/AE-2/2014-15 Dated: 04.03.2015
SAMPLE ID	: Cement - Sample 1
SAMPLE RECEIVED ON	: 04.03.2015
PERIOD OF TESTING	: 04.03.2015 to 05.03.2015



The results of the tests conducted on the cement sample are as follows:

SL No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50%	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	460 Minutes	Not More than 600 Minutes
3	Soundness by Le Chardier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Quality Manager



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Job No: CTCE/BBMP/W.No.02/KRIDL/CSR-03/780a/SAND-Gradation/2014-15

: 05.03.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
 * Agency : Technical Manager, KRIDL, Bangalore.
 * Name of Work : Construction of drains and improvements to roads balance main and cross roads of Susheelamma Layout and Isag Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
 Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 04.03.2015
 Technical Reference : IS : 2386 Part 1 - 1963 RA-2007
 Sample ID : Fine Aggregates - Sample 1
 Sample Received on : 04.03.2015
 Date of Testing : 05.03.2015



Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.40	90-100	90-100	90-100	95-100
2.36	76.30	60-95	75-100	85-100	95-100
1.18	57.40	30-70	55-90	75-100	90-100
600 Micron	39.10	15-34	35-59	60-79	80-100
300 Micron	11.60	5-20	8-30	12-40	15-50
150 Micron	1.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks: This sample is under Zone-II specific limits.

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Job No: CTCE/BBMP/W.No.02/KRIDL/CSR-03/782/AGG/G3/2014-15

: 05.03.2015

TEST REPORT ON COARSE AGGREGATES

- * Customer : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
- * Agency : Technical Manager, KRIDL, Bangalore.
- * Name of Work : Construction of drains and improvements to roads balance main and cross roads of Susheekamma Layout and Isaq Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 04.03.2015

Technical Reference : IS - 2386 Part 1 - 1963 RA-2007

Sample ID : Coarse Aggregates (40mm) - Sample 1

Sample Received on : 04.03.2015

Date of Testing : 05.03.2015



Total Wt. of Aggregates in gms = 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.21	95-100	85-100
20	41.85	30-70	0-20
10	11.28	10-35	0-5
4.75	1.36	0-5	-

* Information is furnished by the Customer/ Representative

Remarks : This sample is under Graded specific limits.

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Job No:-CTCE/BBMP/W.No.02/KRIDL/CSR-03/780h/AGG/GR/2014-15

: 05.03.2015

TEST REPORT ON COARSE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

* Agency : Technical Manager, KRIDL, Bangalore.

* Name of Work : Construction of drains and improvements to roads balance main and cross roads of Susheelanna Layout and Isaq Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/2014-15 Date: 04.03.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm) - Sample 1

Sample Received on : 04.03.2015

Date of Testing : 05.03.2015



Total Wt. of Aggregates in gram= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.30	95-100	85-100
10	30.52	25-55	0-20
4.75	3.04	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No: CTCE/BBMP/W.No.02/KRIDL/CSR-03/780s/DC Solid Block/2014-15

: 08.03.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
 * Agency : Technical Manager, KRIDL, Bangalore.
 * Name of the Work : Construction of drains and improvements to roads balance main and cross roads of Susheelaamma Layout and Isaq Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
 Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 04.03.2015
 Sample Received on : 04.03.2015
 Date of Testing : 08.03.2015
 Size of Blocks : 200mm x 200mm x 200mm
 Cross Sectional Area : 80000 mm²
 Technical Reference : IS: 2185 (Part 1) - 2005
 No. of Blocks Tested : 08



Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS:2185 (Part 1) - 2005
1	Block 1	24.65	261.8	3.27	Minimum required Compressive Strength of Individual Units 3.20 N/mm ²
2	Block 2	25.83	263.8	3.30	
3	Block 3	26.59	262.9	3.29	
4	Block 4	25.47	265.7	3.32	
5	Block 5	24.63	264.8	3.31	
6	Block 6	26.87	260.2	3.25	
7	Block 7	25.31	267.9	3.35	
8	Block 8	26.28	266.3	3.33	

* Information is furnished by the Customer/Representative.

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Job No: CTCE/BBMP/WN-02/KRIDL/STEEL/2014-15

14.03.2015

TEST REPORT ON REINFORCEMENT STEEL

Client : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of the Work : Construction of drains and improvements to roads balance main and cross roads of Susheelaamma Layout and Isaq Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 04.03.2015

Date of Test : 14.03.2015

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per meter (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	8	0.40	511	554	13.05	O.K	O.K

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Job No: CTCIE/BBMP/WNo.02/KRIDL/STEEL/2014-15

14.03.2015

TEST REPORT ON REINFORCEMENT STEEL

Client : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of the Work : Construction of drains and improvements to roads, balance main and cross roads of Sasheegumma Layout and Isaq Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/AE-2/2014-15 Dated 14.03.2015.

Date of Test : 14.03.2015

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per meter (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	513	556	13.25	O.K	O.K

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Job No:- CTCZ/BBMP/WNa.02/KRIDL/STEEL/2014-15

14.03.2015

TEST REPORT ON REINFORCEMENT STEEL

Client : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of the Work : Construction of drains and improvements to roads, balance main and cross roads of Susteelamma Layout and Isag Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 04.03.2015

Date of Test : 14.03.2015

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per meter (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	513	558	13.50	O.K	O.K

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Job No: CTCE/BBMP/WS/02/KRIDL/STEEL/2014-15

14.03.2015

TEST REPORT ON REINFORCEMENT STEEL

Client : Asst. Executive Engineer, Yelahanka Sub Division,
BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of the Work : Construction of drains and improvements to roads,
balance main and cross roads of Susheelanagar Layout
and Isag Layout in Ward No. 02 of Yelahanka Sub
Division, BBMP, Bangalore.

Reference : AER/BBMP/YSO/AE-2/2014-15 Dated: 04.03.2015

Date of Test : 14.03.2015

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per meter (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	16	1.58	518	561	13.70	O.K	O.K

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Job No: CTCE/BBMP/W.No.02/KRIDL/CSR-03/7800/CUBE/2014-15

26.03.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Yelbunka Sub Division, BBMP, Bangalore

* Agency : Technical Manager, KRIDL, Bangalore

* Name of the work : Construction of drains and improvements to roads balance main and cross roads of Sushelanma Layout and Isaq Layout in Ward No. 02 of Yelbunka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 04.03.2015

* Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M₂₀

Compressive Strength is on : 7th day

Sample Received on : 19.03.2015



S.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	19.03.2015	26.03.2015	8.107	348.6	15.49
2	19.03.2015	26.03.2015	8.215	362.4	16.11
3	19.03.2015	26.03.2015	8.324	381.9	16.97

* Information is furnished by the Customer/Representative

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Job No: CTCF/BBMP/W.No.02/KRIDL/GSB-L/GR/2014-15

Date : 09.03.2015

GRADATION FOR GSB (Coarse Graded-1) IS : 2720 (Part - 4)

Client : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of work : Construction of drains and improvements to roads balance main and cross roads of Susheelamma Layout and Isac Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 04.03.2015

Date of Testing : 09.03.2015



Sample Source : Mix Plant Bangalore.

Oven Dry Wt (gm) : 25675

TABLE - 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
75	-	-	-	100	100
36.3	7553	7553	29.42	70.58	55-75
4.75	12967	20520	79.92	20.08	10-30
0.075	4174	24694	96.18	3.82	<10
PAN	981				
Total	25675				

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading I

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(Lab No.) CICE-BBMP/W.No.02/KRIDL/WMM/Gradation/2014-15

17.03.2015

GRADATION FOR WMM MORTH TABLE-400-II

Customer : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency : Technical Manager, KRIDL, Bangalore.
Name of Work : Construction of drains and improvements to roads balance main and cross roads of Susheelaamma Layout and Isaq Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference : AEE/BBMP/YSD/AE-2/2014-15 Dated: 04.03.2015
Date of Testing : 17.03.2015
Material : WMM
Sample Location : WMM Mix Plant



Oven Dry Wt (gm): 29540

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	618	618	2.1	97.9	95-100
22.4	5665	6283	21.3	78.7	60-80
11.2	6826	13109	44.4	55.6	40-60
4.75	5435	18544	62.8	37.2	25-40
2.36	4267	22811	77.2	22.8	15-30
0.600	1859	24670	83.5	16.5	8-22
0.075	3245	27915	94.5	5.5	0-8

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Handwritten signatures and initials in blue ink.

Handwritten signature of Vishwanath J.C.
VISHWANATH J.C
Quality Manager



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Job No: CTCE/BBMP/W.No.02/KRIDL/B&M/Dimmer/2014-15

23.03.2015

BITUMEN CONTENT DETERMINATION OF BITUMINOUS MACADAM MIX AS per IRC:SP:-1984

CLIENT	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	Technical Manager, KRIDL, Bangalore.
NAME OF THE WORK	Construction of drains and improvements to roads balance main and cross roads of Susheelamma Layout and Isaq Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	AEE/BBMP/YSD/AE-2/2014-15 Dated: 04.03.2015
SAMPLE I/D	Main and cross roads of Susheelamma Layout and Isaq Layout in Ward No. 02
DATE OF TESTING	23.03.2015

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	482	482
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	18	18.00
7. Bitumen content in %	3.60	3.60
8. Average	3.60	

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Job No: CTC/BBMP/W.No.02/KRIDL/BM/Gradiation/2014-15

23.03.2015

GRADATION DETERMINATION OF BITUMINOUS MACADAM MIX

As per IS2386 and IRC:SP:11-1984

CLIENT	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	Technical Manager, KRIDL, Bangalore.
NAME OF THE WORK	Construction of drains and improvements to roads balance main and cross roads of Susheekamma Layout and Isaq Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	AFB/BBMP/YSD/AE-2/2014-15 Dated: 04.03.2015
SAMPLE I/D	Main and cross roads of Susheekamma Layout and Isaq Layout in Ward No. 02
DATE OF TESTING	23.03.2015



GRADATION AFTER EXTRACTION

Sieve Size in mm	Trail 1				Specified Limits as per MORTH specification table 500-04 (Grading-2)
	Weight Retained, gm	% Retained	% Cumulative Retained	% Passing	
26.5	0	0	0	100	100
19	34.25	7.11	7.11	92.89	90-100
13.2	98.42	20.42	27.52	72.48	55-85
4.75	265.32	55.05	82.57	17.43	16-36
2.36	53.78	11.16	93.73	6.27	4-19
0.3	15.64	3.24	96.97	3.03	2-10
0.075	7.23	1.50	98.47	1.53	0-5

b The results indicated above are based on the tests carried	Trail 2				Specified Limits as per MORTH specification table 500-04 (Grading-2)
	Weight Retained, gm	% Retained	% Cumulative Retained	% Passing	
26.5	0	0	0	100	100
19	33.89	7.03	7.03	92.97	90-100
13.2	92.57	19.21	26.24	73.76	55-85
4.75	259.64	53.87	80.10	19.90	16-36
2.36	49.05	10.09	90.20	9.80	4-19
0.3	13.53	3.84	94.04	5.96	2-10
0.075	8.12	1.68	95.73	4.27	0-5

Note:

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Job No: CTCE/BBMP/W.No.02/KRIDL/SDRC/Bangalore/2014-15

28.03.2015

BITUMEN DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

AS per IRC : SP : 11 - 1984

CLIENT	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	Technical Manager, KRIDL, Bangalore.
NAME OF THE WORK	Construction of drains and improvements to roads balance main and cross roads of Susheelanamma Layout and Isaq Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	AEB/BBMP/YSD/AE-2/2014-15 Dated: 04.03.2015
SAMPLE I/D	Main and cross roads of Susheelanamma Layout and Isaq Layout in Ward No. 02.
DATE OF TESTING	26.03.2015

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1 Weight of Mixture before Test, g	500	500
2 Weight of Mixture after Test, g	475	475
3 Weight of Asphalt and Mineral matter Extracted, g	-	-
4 Weight of Mineral Matter, g	-	-
5 Weight of Ash, g		
6 Weight of Bitumen Extracted, g (corrected)	25	25.00
7 Bitumen content in %	5.00	5.00
8 Average	5.00	



Note:

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- 2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
- 3. Any Query regarding the report must be reported within 30 days from the date of testing.



VISHWANATH B
Quality Manager

AK2
AK2



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No: CTCE/BBMP/W.No.02/KRIDL/SDBC/Gradation/2014-15

26.03.2015

GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

As per IS : 2386 and IRC : SP : 11 - 1984

CLIENT	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	Technical Manager, KRIDL, Bangalore.
NAME OF THE WORK	Construction of drains and improvements to roads balance main and cross roads of Susheelanamma Layout and Isaq Layout in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	ABE/BBMP/YSO/AR-2/2014-15 Dated: 04.03.2015
SAMPLE I/D	Main and cross roads of Susheelanamma Layout and Isaq Layout in Ward No. 02
DATE OF TESTING	26.03.2015



GRADATION AFTER EXTRACTION

Sieve Size in mm	Trail 1				Specified Limits as per MORTH specification table 500-15 (Grading-2)
	Weight Retained, gm	% Retained	% Cumulative Retained	% Passing	
13.2	0	0	0	100	100
9.5	24.15	5.08	5.08	94.92	90-100
4.75	249.53	52.55	57.64	42.36	35-51
2.36	52.87	11.13	68.77	31.23	24-39
1.18	25.34	5.55	74.31	25.69	15-30
0.3	59.67	12.56	86.88	13.12	9-19
0.075	36.42	8.00	94.88	5.04	3-8

Sieve Size in mm	Trail 2				Specified Limits as per MORTH specification table 500-15 (Grading-2)
	Weight Retained, gm	% Retained	% Cumulative Retained	% Passing	
13.2	0	0	0	100	100
9.5	32.18	6.77	6.77	93.23	90-100
4.75	265.84	53.86	60.64	39.36	35-51
2.36	49.05	10.45	71.09	28.91	24-39
1.18	42.15	8.87	79.96	20.04	15-30
0.3	55.26	7.42	87.39	12.61	9-19
0.075	40.32	8.49	95.87	4.13	3-8

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AK 2
26/3/15

VISHWANATH C
Quality Manager